



# Established "Golden Regions"

## Display Regional Pages:

With this form you can select regional specific pages. A graphic depicting the general area of each region is below.

Choose a Location:

*\* Indicates a satellite only area.*



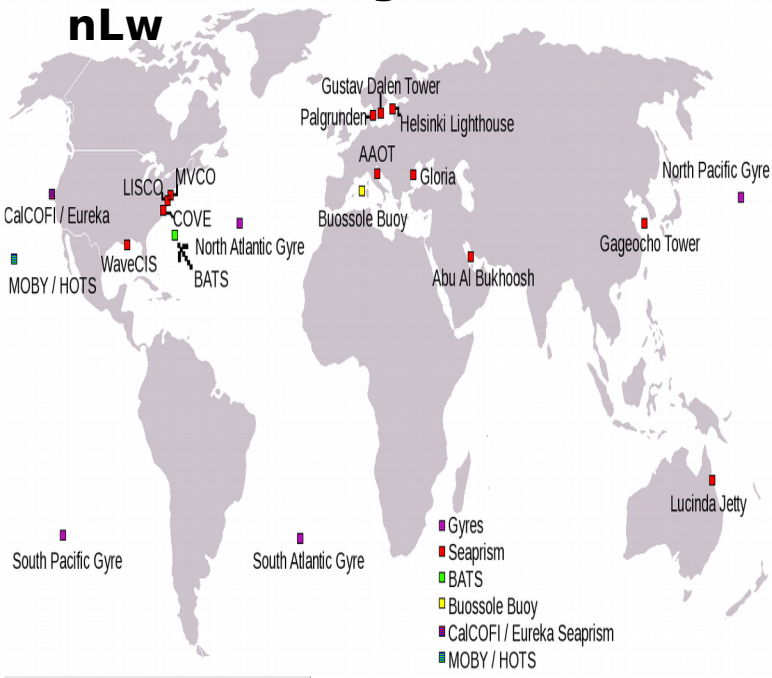
Site Name	Satellite Status	Insitu Status
WaveCIS Site 6		
Palgrunden		
Martha's Vineyard		
Lucinda Jetty		

## Multiple Satellites -

## MODIS, MERIS, VIIRS - Proxy

## Real time processing For ocean water quality products

## (including normalized Water leaving radiance) -- nLw



	Golden regions					
	Areas	Map	Date Online	VIIRS-Proxy	MODIS 1km	MERIS 1km
1	Long Island	MVCOX (MVX)	AERONET	1/10- present	1/10 - present	1/10 - present
2	Venice	AAOT (AOT)	AERONET	1/10- present	1/10 - present	1/10 - present
3	MVCO	MVCOX (MVX)	AERONET	1/10- present	1/10 - present	1/10 - present
4	WaveCIS (Gulf)	WaveCIS (WCS)	AERONET	1/10- present	1/10 - present	1/10 - present
5	Lucinda	LucindaJetty (LJY)	AERONET	1/10- present	1/10 - present	1/10 - present
6	COVE /Chesapeake region	ChesapeakeBay (CBY)	AERONET	1/10- present	1/10 - present	1/10 - present
7	Gustav Dalen	GDAT (GDT)	AERONET	1/10- present	1/10 - present	1/10 - present
8	Helsinki	Helsinki (HLH)	AERONET	1/10- present	1/10 - present	1/10 - present
9	MOBY - Buoy	MOBY (MOB)	Buoy	1/10- present	1/10 - present	1/10 - present
10	South pacific Gyre	SouthPacificGyre (SPG)	GYRE	1/10- present	1/10 - present	1/10 - present
11	North Pacific Gyre	NorthPacificGyre (NPG)	GYRE	1/10- present	1/10 - present	1/10 - present
12	North Atlantic Gyre	NorthAtlanticGyre (NAG)	GYRE	1/10- present	1/10 - present	1/10 - present
13	South Atlantic Gyre	SouthAtlanticGyre (SAG)	GYRE	1/10- present	1/10 - present	1/10 - present
14	Eureka	CalCOFI (CCI)	AERONET	1/10- present	1/10 - present	1/10 - present
15	Abu Al Bukhoosh	AbuAlBukhoosh (AAB)	AERONET	1/10- present	1/10 - present	1/10 - present
16	Palgrunden	Palgrunden (PAL)	AERONET	1/10- present	1/10 - present	1/10 - present
17	Boussole Buoy	BoussoleBuoy (BOB)	BUOY	1/10- present	1/10 - present	1/10 - present
18	Gloria	Gloria (GAS)	AERONET	1/10- present	1/10 - present	1/10 - present
19	HOT Region	MOBY (MOB)	REGION	1/10- present	1/10 - present	1/10 - present
20	BATS Region	BATS (BTS)	REGION	1/10- present	1/10 - present	1/10 - present
21	CalCOFI* Region	CalCOFI (CCI)	REGION	1/10- present	1/10 - present	1/10 - present
22	Yellow Sea	GageochoSeapism (GSP)	AERONET	1/10- present	1/10 - present	1/10 - present
23	Thailand Aeronet	ThailandSeapism (TSP)	AERONET	1/10- present	1/10 - present	
24	Santa Barbara Channel	CalCOFI (CCI)	REGION	1/10- present	1/10 - present	1/10 - present
25	Monterey Bay	CalCOFI (CCI)	REGION		1/10 - present	1/10 - present
26	Newport, Oregon	OregonInsitu (OIS)	REGION	6/11-present	6/11-present	6/11-present
27	Columbia River	Oregon Inistu (OIS)	REGION	6/11-present	6/11-present	6/11-present

Guide to the color codes:

- GOLD** Data within the three days.  
**RED** Data available, but not recently.  
**BLUE** Area/Satellite combination not running (likely intentional).

**Script last ran:** 19:15; 21-July,2011  
**Files in work directory:** 455; **Files to be processed:** 10.  
**Previous files in work directory:** 451; **Previous files to be processed:** 9.  
**High/Low number of files in work directory:** 2639, 0.  
**High/Low number of files to be processed:** 1406, 0.  
*\* Note: High/Lows calculated since 0800 1 July 2011.*

Area	modis	hmodis	viirs	meris	hmeris
AAOT	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
AAOT250	N/A	RECENT DATA	N/A	N/A	N/A
Aloha	RECENT DATA	N/A	N/A	RECENT DATA	N/A
BATS	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
BATS250	N/A	RECENT DATA	N/A	N/A	N/A
BlackSea	RECENT DATA	N/A	N/A	RECENT DATA	N/A
BoussoleBuoy	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
BoussoleBuoy250	N/A	RECENT DATA	N/A	N/A	N/A
CalCOFI	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
ChesapeakeBay	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
ChesapeakeBay250	N/A	RECENT DATA	N/A	N/A	RECENT DATA
EastSea	N/A	N/A	N/A	RECENT DATA	N/A
GDAT	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
GDAT250	N/A	RECENT DATA	N/A	N/A	N/A
GagechoSeaprim	RECENT DATA	N/A	N/A	RECENT DATA	N/A
Gloria	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
Gloria250	N/A	RECENT DATA	N/A	N/A	N/A
Gomex	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
GreatLakes1km	RECENT DATA	N/A	RECENT DATA	N/A	N/A
GulfOfCali	RECENT DATA	N/A	N/A	RECENT DATA	RECENT DATA
GulfOfCali250	N/A	RECENT DATA	N/A	N/A	N/A
GulfOfMaine	RECENT DATA	N/A	RECENT DATA	N/A	N/A
GulfofThailand	RECENT DATA	N/A	N/A	RECENT DATA	N/A
GulfofThailand250	N/A	RECENT DATA	N/A	N/A	N/A
HCMCity	RECENT DATA	N/A	N/A	RECENT DATA	N/A
HCMCity250	N/A	RECENT DATA	N/A	N/A	N/A
Helsinki	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
Helsinki250	N/A	RECENT DATA	N/A	N/A	N/A
JuanDeFuca250	N/A	RECENT DATA	N/A	N/A	N/A
Kuwait250	N/A	RECENT DATA	N/A	N/A	N/A
LigurianSea	RECENT DATA	N/A	RECENT DATA	N/A	N/A
LouisianaCoastEPA	N/A	RECENT DATA	N/A	N/A	N/A
LucindaJetty	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
LucindaJetty250	N/A	RECENT DATA	N/A	N/A	N/A
LuzonStrait	N/A	RECENT DATA	N/A	N/A	N/A

LigurianSea	RECENT DATA	N/A	RECENT DATA	N/A	N/A
LouisianaCoastEPA	N/A	RECENT DATA	N/A	N/A	N/A
LucindaJetty	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
LucindaJetty250	N/A	RECENT DATA	N/A	N/A	N/A
LuzonStrait	N/A	RECENT DATA	N/A	N/A	N/A
MVCOX	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
MVCOX250	N/A	RECENT DATA	N/A	N/A	RECENT DATA
Mindanao250	N/A	RECENT DATA	N/A	N/A	N/A
MindoroStrait250	N/A	RECENT DATA	N/A	N/A	N/A
MissBight	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
MissBight250	N/A	RECENT DATA	N/A	N/A	RECENT DATA
Monterey	RECENT DATA	N/A	N/A	RECENT DATA	RECENT DATA
Monterey250	N/A	RECENT DATA	N/A	N/A	N/A
NYBight	RECENT DATA	N/A	RECENT DATA	N/A	N/A
NYBight250	N/A	RECENT DATA	N/A	N/A	RECENT DATA
NorthAtlanticGyre	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
NorthEastAustralia	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
NorthEastPacific	RECENT DATA	N/A	N/A	RECENT DATA	N/A
NorthPacificGyre	RECENT DATA	N/A	RECENT DATA	N/A	N/A
OregonInsitu	RECENT DATA	N/A	N/A	RECENT DATA	N/A
OregonInsitu250	N/A	RECENT DATA	N/A	N/A	N/A
Palgrunden	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
Palgrunden250	N/A	RECENT DATA	N/A	N/A	N/A
PanamaCity250_Vulcanex	N/A	RECENT DATA	N/A	N/A	N/A
PersianGulf	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
PersianGulf250	N/A	RECENT DATA	N/A	N/A	N/A
Philippines	RECENT DATA	N/A	N/A	RECENT DATA	N/A
RedRiver	RECENT DATA	N/A	N/A	RECENT DATA	N/A
RedRiver250	N/A	RECENT DATA	N/A	N/A	N/A
SOIN_01	RECENT DATA	N/A	N/A	RECENT DATA	N/A
SomaliaCoast	RECENT DATA	N/A	N/A	RECENT DATA	N/A
SouthAtlanticGyre	RECENT DATA	N/A	RECENT DATA	NO RECENT DATA	N/A
SouthChina	RECENT DATA	N/A	N/A	N/A	N/A
SouthPacificGyre	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
VirginiaCapes	RECENT DATA	N/A	N/A	N/A	N/A
VirginiaCapes250	N/A	RECENT DATA	N/A	N/A	N/A
WaveCIS	RECENT DATA	N/A	RECENT DATA	RECENT DATA	N/A
WaveCIS250	N/A	RECENT DATA	N/A	N/A	RECENT DATA
Percent Current:	100 %	100 %	100 %	79 %	100 %

July 20, 2011  
GTP Query  
NRL Download

Note: SVM01  
to SVM07  
include both  
AQUA and  
AQOC (NRL  
Proxy)

Type	Success	Failed	Missing (AQOC/AQUA)
GMOD0	856	109	
SVM01	216	1	13/1
SVM02	213	1	16/1
SVM03	209	1	20/1
SVM04	203	2	25/1
SVM05	198	1	30/1
SVM06	195	1	33/1
SVM07	192	1	36/1
SVM08	113	2	0/1
SVM09	114	1	0/1
SVM10	113	1	0/1
SVM11	114	1	0/1
SVM12	114	1	0/1
SVM13	114	1	0/1
SVM14	113	2	0/1
SVM15	113	2	0/1
SVM16	114	1	0/2

July 20, 2011

GTP Query 10:06 - Start

NRL Download 10:28 - Connection error (after 15 min sleep)

10:31 - Missing SVM16 band (query)

GTP Client v2.1 11:07 - Missing SVM07 band (query)

11:11 - Missing several AQOC bands (query)

11:17 - Missing SVM06/07 bands (query)

11:57 - Missing several AQOC bands (query)

11:58 - GTP memory allocation error

.... repeat these every several times (10-20 mins) ....

15:56 - GTP memory allocation errors/uncompress errors

July 21, 2011  
GTP Query  
NRL Download

Note: SVM01  
to SVM07  
include both  
AQUA and  
AQOC (NRL  
Proxy)

Type	Success	Failed	Missing (AQOC/AQUA)
GMOD0	463	0	
SVM01	100	0	38/0
SVM02	100	0	38/0
SVM03	100	0	38/0
SVM04	101	0	38/0
SVM05	101	0	37/0
SVM06	100	0	37/0
SVM07	101	0	37/0
SVM08	69	0	0/0
SVM09	69	0	0/0
SVM10	69	0	0/0
SVM11	69	0	0/0
SVM12	69	0	0/0
SVM13	69	0	0/0
SVM14	69	0	0/0
SVM15	69	0	0/0
SVM16	69	0	0/0

# DATA FLOW

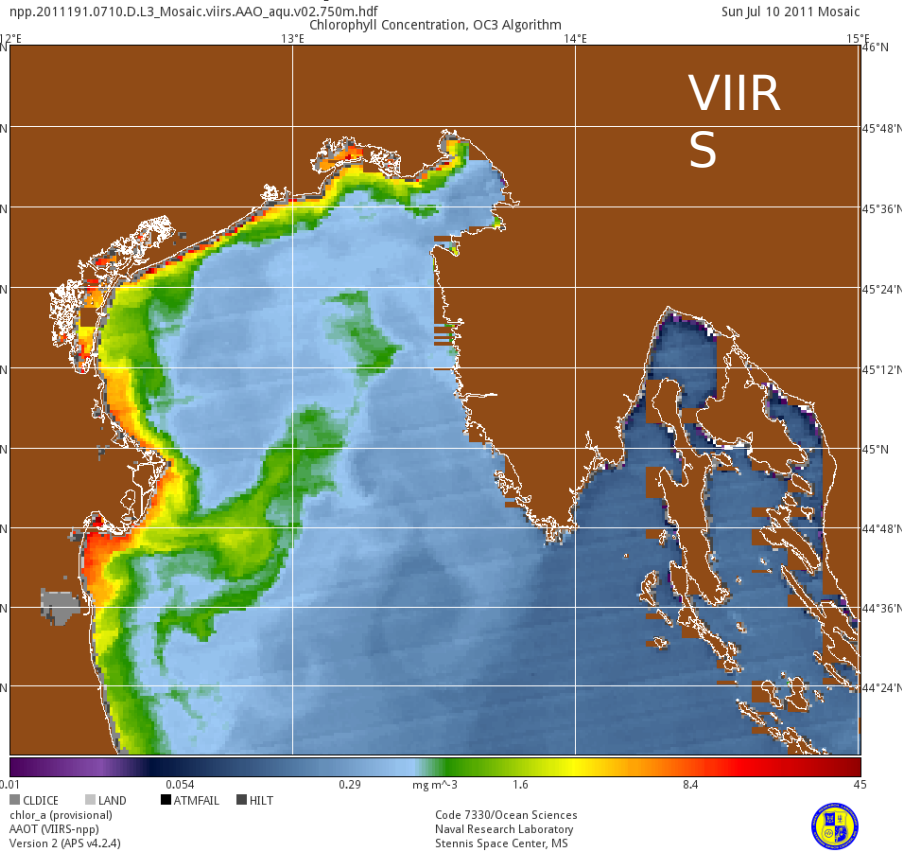
# Venice

- Rehearsal
- July 10<sup>th</sup>, 2011 image
- GTP access has been down since Friday (July 15th)

Chlorophyll-a and a\_443 Image  
Difference and scatter plot examples

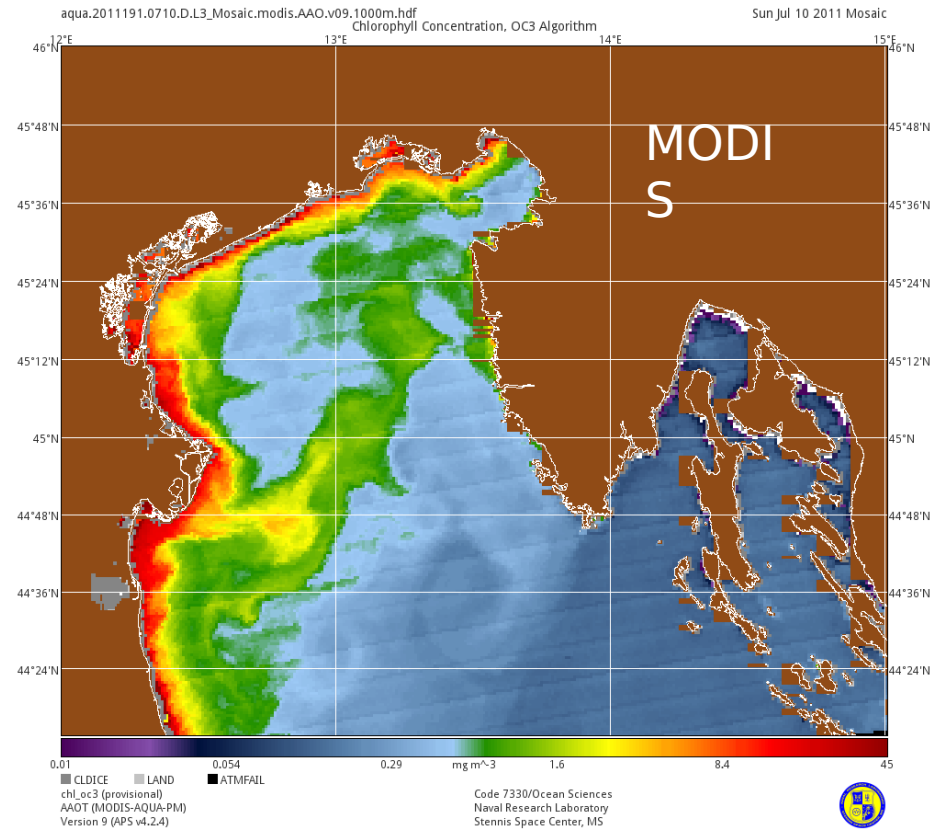


# July 10, 2011 VIIR and MODIS processed



[http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=\\*chl\\*\\*](http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl**)

Example of  
Chlorophyll.  
All products processed

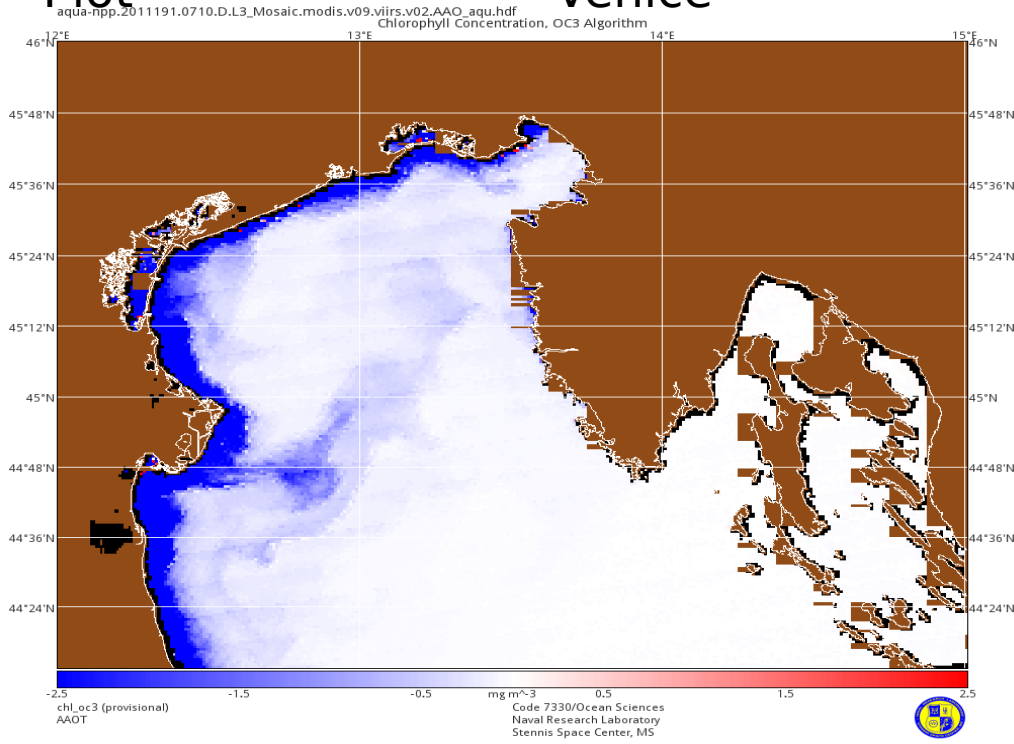


[http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=\\*chl\\*](http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*)

Remote sensing  
reflectance.

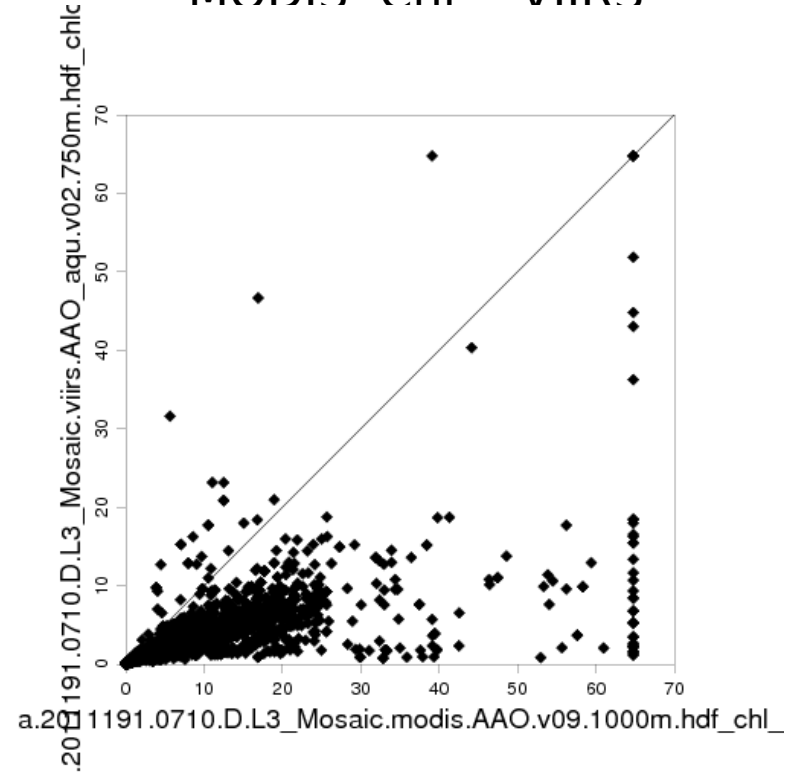
# Difference Plot

July 10, 2011 - Venice



MODIS Chlor

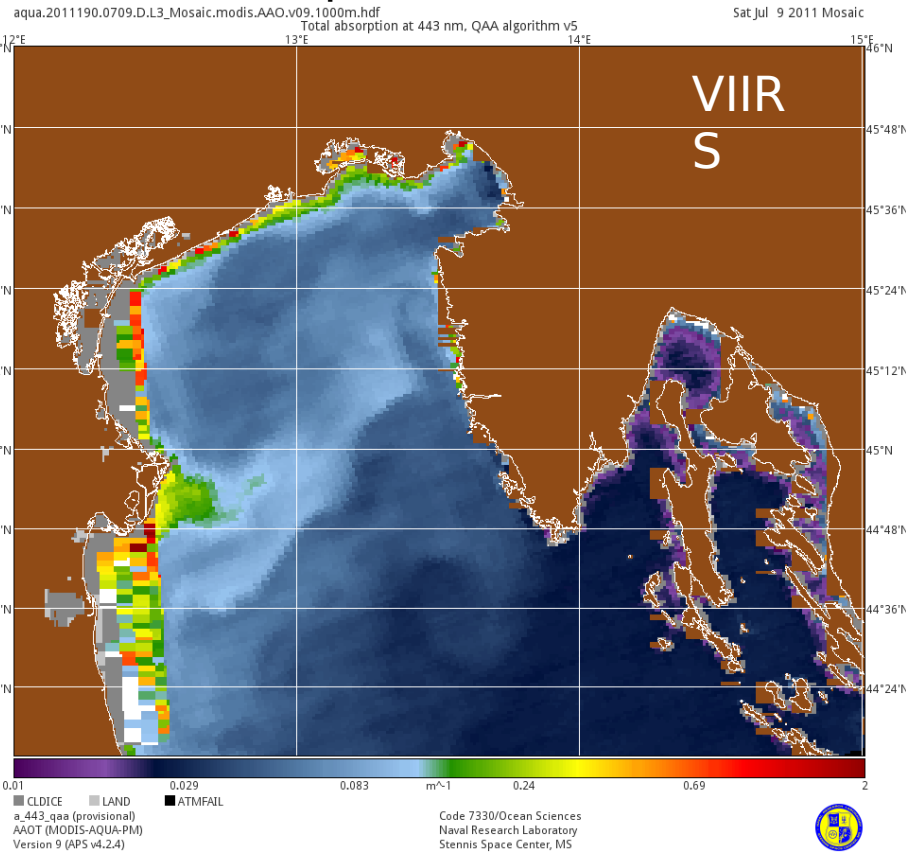
# Scatter plot MODIS Chl - VIIRS



$m^3$   
[http://www3.nd.edu/~sc.navy.mil/browse/lvl5/modis-viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=\\*chl\\*eps](http://www3.nd.edu/~sc.navy.mil/browse/lvl5/modis-viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*eps)

7/19/11

# July 10, 2011 VIIR and MODIS processed

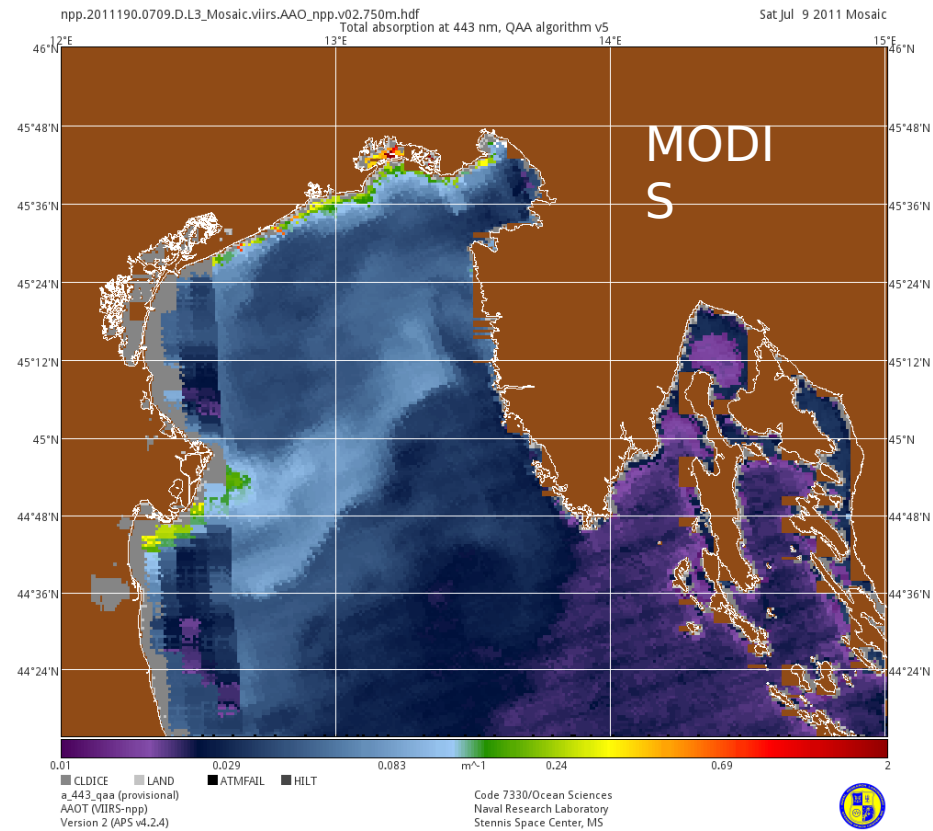


[http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=\\*chl\\*\\*](http://www7333.nrlssc.navy.mil/browse/lvl3/viirs/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl**)

Example of a\_443 (QAA).  
All products processed

Remote sensing reflectance.

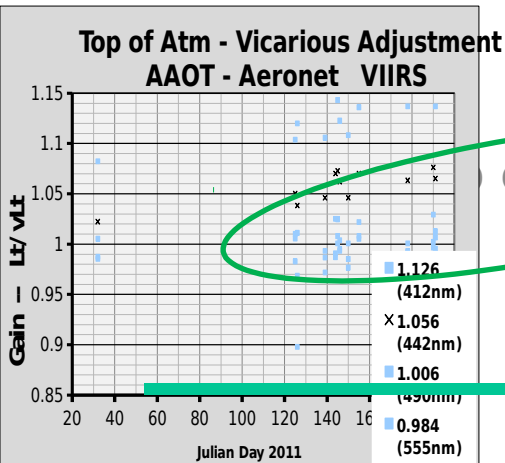
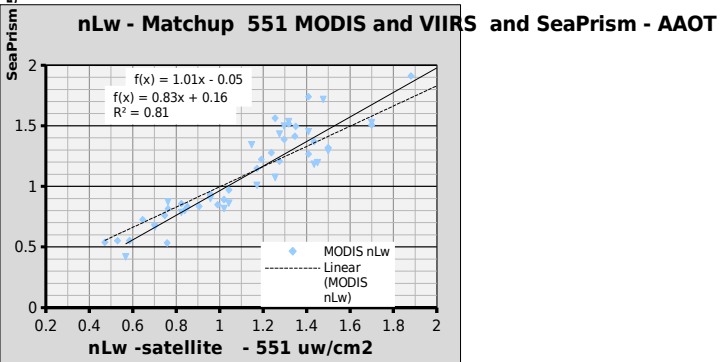
7/19/11



[http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=\\*chl\\*](http://www7333.nrlssc.navy.mil/browse/lvl3/modis/AAOT/2011/jul/?F=1&C=N&O=A&V=0&P=*chl*)

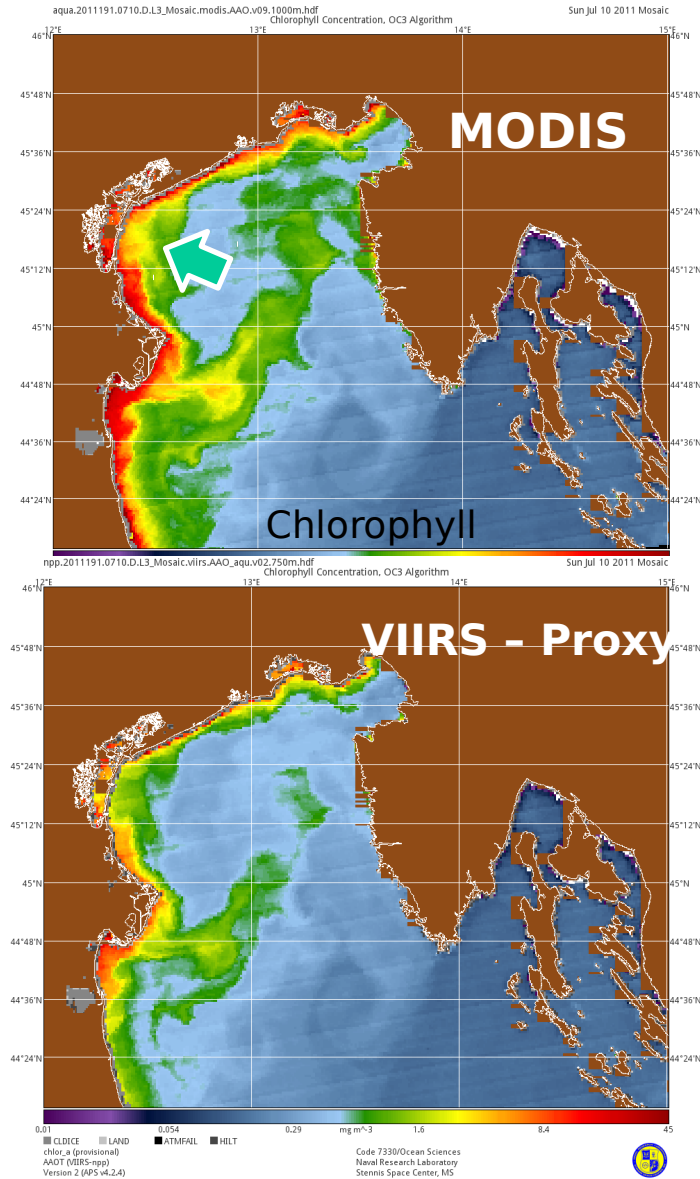
## Example from Venice - Matchup

- Monitoring the Channel Gains In all regions

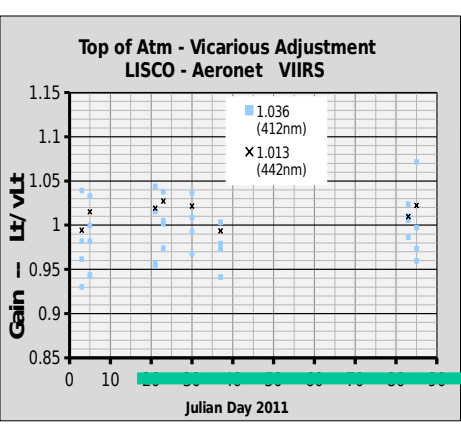
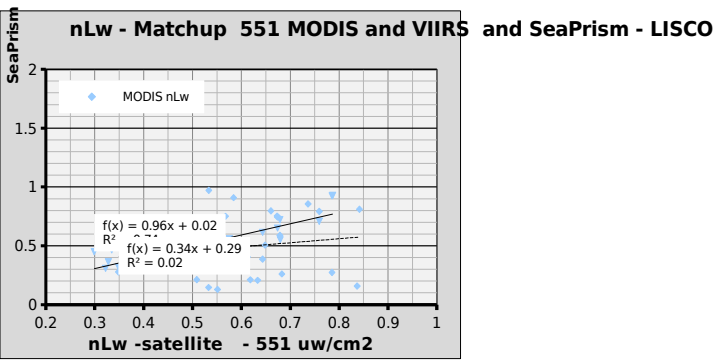


edit Master subtitle style

Channel Gains

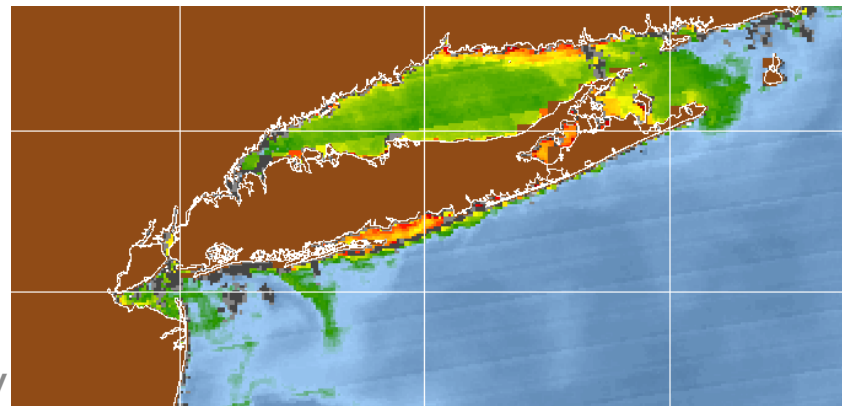


SeaPrism 551 uW/cm2/nm

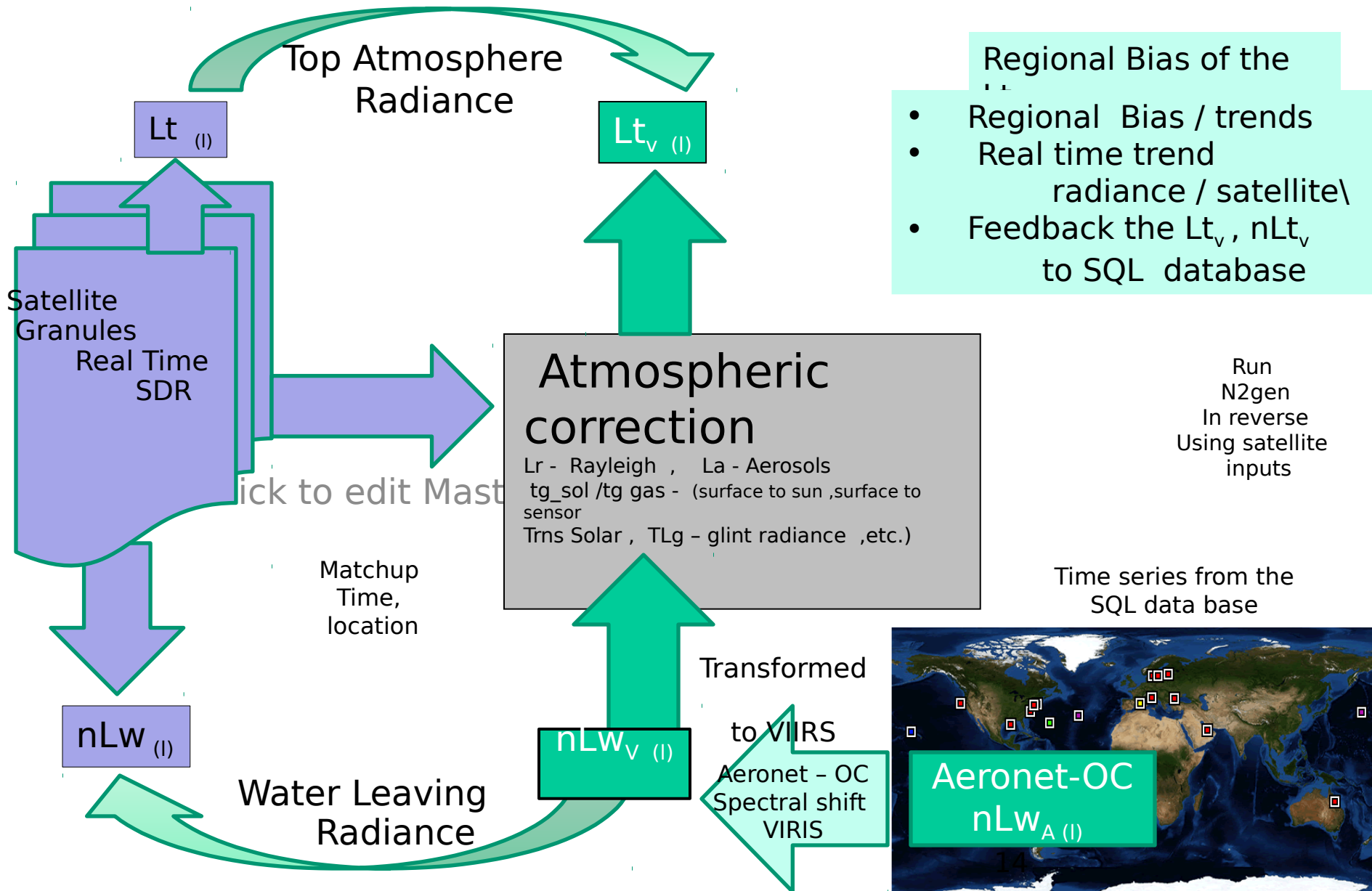


to edit Master subtitle style

Channel  
Gains

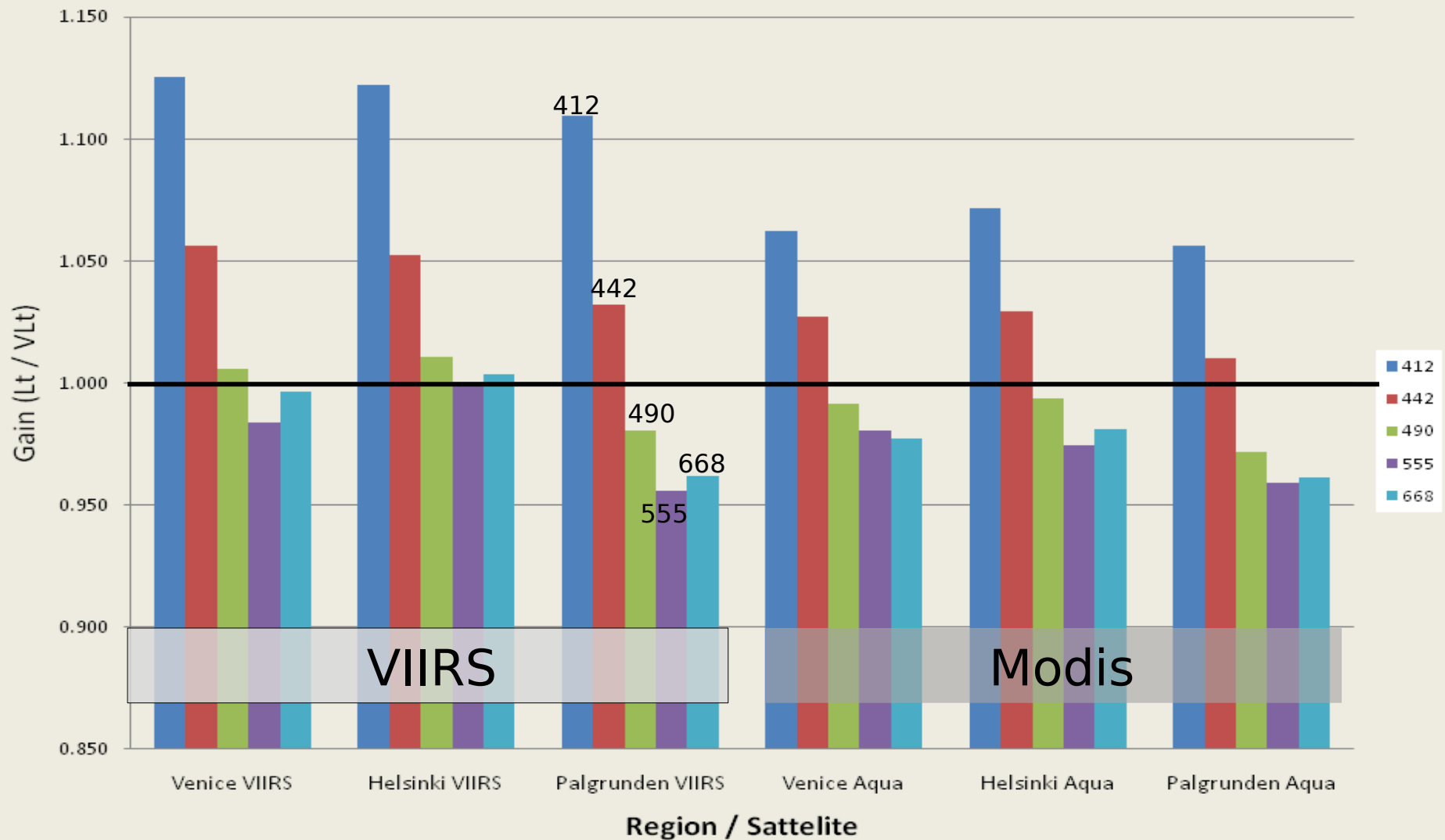


# Real time “Vicarious” Regional matchup Lt and nLw



# Real time monitoring Regional Vicarious Adjustment

Top Of Atmosphere Vicarious Adjustment  
3 - Sites / Satellites / Seaprisms







# SAVANT

## Satellite VALidation Navy Tool

Naval Research Laboratory Code 7331  
Bio-Optical Physical Processes and Remote Sensing, Bldg 1009  
Stennis Space Center, MS 39529

<Rehearsal Links>

Comparison Tool | Regional Pages | Updates/Status | Help Page |

Display Regional Page

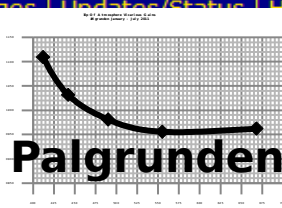
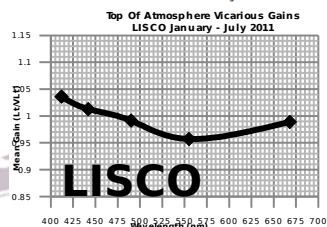
With this form you can select

Choose a Location:

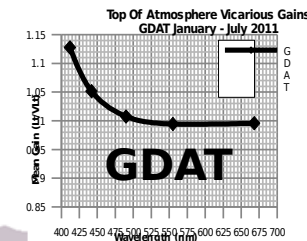
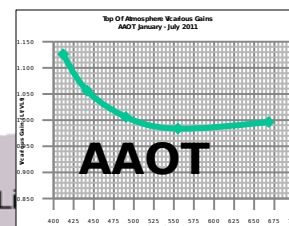
Martha's Vineyard

\* Indicates a satellite only area.

Go!



graphic depicting the general area of each region is below.



Site Name	Satellite Status	Insitu Status
WaveCIS Site 6		
Palgrunden		
Martha's Vineyard		
Lucinda Jetty		



# Top Of Atmosphere Vicarious Gains January - July 2011

